



**Annual Report to Sponsors
on Student Research
at Maxwell**
29 June 2001



TO: Research Sponsors

2-Jul-01

Each year, the Air University (AU) commander invites senior Air Force and Joint commanders to propose research topics for the incoming classes at Air University. This report seeks to provide AU research sponsors with feedback on the resulting research papers. The studies in this report represent just completed student projects that (1) directly address research topics submitted from the field; or (2) were initiated at AU and may contribute to field requirements.

To speed the availability of these reports to our sponsors, these papers listed in this report are available now via the SIPRNET at <http://www.cadre.maxwell.af.smil.mil>. These pre-released papers may be downloaded from the SIPRNET. They will be annotated as DISTRIBUTION E: DOD-ONLY.

The research staffs at each school and the AU Public Affairs office have already begun the security review process on these papers. As soon as each paper is cleared, it will be posted to the Internet on the AU Research Web (<http://research.au.af.mil>). Since the copies on this Internet site will be unclassified, we advise first checking the Internet site for papers of interest.

The papers listed in this report will soon join the collection of almost 1,500 research papers on national security issues produced by the College of Aerospace Doctrine, Research and Education and the graduate schools of Air University:

- Air Command and Staff College (ACSC),
- Air War College (AWC),
- AF Fellows Program (AFFP),
- AF Institute of Technology (AFIT), and the
- School of Advanced Airpower Studies (SAAS).

The on-line collection of the research papers is made available electronically via the AU Research Web (<http://research.au.af.mil>).

Additional information on the AU research program is available from the AU Research Support Division at research.support@maxwell.af.mil, DSN 493-4962/6875, or comm. ph. (334) 953-4962/6875.

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DOD & JCS

Research studies undertaken on topics for the Department of Defense & the Joint Chiefs of Staff.

Joint Chiefs of Staff

Col Frederick Strain (DSN 493-2384) is the JCS Command Chair to AU.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
An Examination of U.S. Policy Towards Iraq: Success or Failure	An Aerospace Power Engagement Strategy For IRAQ and the Persian Gulf after Sanctions	Robert Blanke	ACSC
NAPSTER as a Model for Distributed Joint Battlespace Intelligence Dissemination and Operational Tasking	Peering Into The Future: Peer-To-Peer Technology As A Model For Distributed Joint Battlespace Intelligence Dissemination and Operational Tasking	Mark Bontrager	SAAS
Impact of JV2020 on Future Coalition Operations	Knowledge Superiority: Analysis and Recommendations to Achieve Joint Vision 2020	John Burke	AWC
Obstacles to UAV Development and Deployment	Past UAV Program Failures and Implications for Current UAV Programs	Barak Carlson	ACSC
Obstacles to UAV Development and Deployment	Unmanned Combat Air Vehicles: Viability for Deep Strike	Robert Chapman	AF Fellows
Does JV2020 require a different force structure?	Directed Energy Weapons on the Battlefield: A New Vision for 2020	John Geis	AWC
The Role of Political Authorities in Theater Target Approval	Who Should Call the Shots? Resolving Friction in the Targeting Process	Richard Hand	SAAS
Obstacles to UAV Development and Deployment	The Implications of Executing the SEAD Mission in a UCAV	David Hathaway	SAAS
Transitioning to a Post-Sanctions Environment in the Gulf States	Desert "Overkill:" The High Cost of the Iraqi No-Fly Zone Military Strategy	Stephen Miller	ACSC

Impact of JV2020 on Future Coalition Operations	Do We Make Interoperability a High Enough Priority?	Michelle Schmith	ACSC
Exit Strategies From Peacekeeping Operations	Peacekeeping Exit Strategy: A Renaissance for the Deadline?	Jeffrey Stambaugh	AF Fellows
The Emerging European Defense Identity: Implications for NATO	The European Union's Emerging Military Capability	Johan Tornqvist	ACSC
AU-initiated Project	Air Force Information Operations (IO) Doctrine: Consistent with Joint IO Doctrine?	Robert Blackington	ACSC
AU-initiated Project	Linking Target Selection to Political Objectives	Scott Tew	ACSC

Unified Commands

Research studies undertaken on topics for Unified Combatant Commands.

US Central Command

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Shaping the Force Structure to Best Meet the Human Dimension Impacts of Continuous Operations	The EAF, OPSTEMPO, and Continuous Operations	William Routt	ACSC
US Strategy Development for Central Asian States (CAS)	The Future of East Timor: New Nation in Southeast Asia?	Michael Swinbourne	AWC
AU-initiated Project	War Termination in the Persian Gulf: Problems and Prospects'	Mark Garrard	AWC
AU-initiated Project	No Fly Zones: Costs, Benefits, and Conditions	William Tart	SAAS
AU-initiated Project	Preventing Catastrophe: U.S. Policy Options for the Management of Nuclear Weapons in South Asia	Martin Wojtysiak	AWC

US European Command

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
AU-initiated Project	Expanding Security Eastward: NATO and US Military Engagement in the South Caucasus and Central Asia	James DeTemple	AF Fellows

US Pacific Command

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
AU-initiated Project	The Role of China's Space Program in Its National Development Strategy	William Morris	AWC
AU-initiated Project	The Politics of Vulnerability: China, Russia and US Missile Defense	Allan Netzer	AF Fellows
AU-initiated Project	Preventing Catastrophe: U.S. Policy Options for the Management of Nuclear Weapons in South Asia	Martin Wojtysiak	AWC

US Southern Command

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Strategies for the Successful Implementation of the USSOUTHCOM Environmental Security Supplement to USCINCSO Theater Engagement Plan	Strategy for the Successful Implementation of U.S. Southern Command's Environmental Security Supplement to USCINCSO Theater Engagement Plan	Kevin Rumsey	AF Fellows

US Space Command

Col Edward Strack (DSN 493-2431) is the incoming Space Command Chair to AU. Other paper relating to space are listed under AFSPC.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
AU-initiated Project	The Command of Space: A National Vision for American Prosperity and Security	John Amrine	AWC
AU-initiated Project	Vision to Victory - Space, Mahan, and Mitchell: The Role of the Visionary in Cross-organizational Innovation	Fred Gaudlip	SAAS
AU-initiated Project	Space-Derived Transparency: Players, Policies, Implications, and Synergies	Christopher Kinnan	SAAS
AU-initiated Project	The Rise of Surveillance	Jim Norman	AF Fellows
AU-initiated Project	Moving Out: A National Strategy for Sustained Space Superiority	Larry Schaefer	AWC

US Special Operations Command

Col John D. Jogerst (DSN 493-5407) is the incoming Special Operations Chair to AU. Other studies on Special Operations are listed under AFSOC.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Unmanned Air Platforms in Future Warfare: A Cost Benefit Analysis of UAVs in various SOF roles.	Arms Control Implications for Military Operations in Space	Thomas Billick	AF Fellows
Unmanned Air Platforms in Future Warfare: A Cost Benefit Analysis of UAVs in various SOF roles.	UAVS And ISR Sensor Technology	Jeffrey Butler	ACSC

US Transportation Command

Col Ben Young (DSN 493-2305) is the incoming Mobility Chair for AU. Other studies on mobility are listed under AMC.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
AU-initiated Project	De-Ranged: Global Power and Air Mobility for the New Millennium	Robert Colella	SAAS
AU-initiated Project	National Response to WMD Incidents: Implications for Airlift	Gary Renfrow	SAAS

Sister Services

Research studies undertaken on topics for sister services.

US Army

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
AU-initiated Project	Army Space Operations Organization: Stellar Support for the Warfighter	Thomas James	SAAS

US Marine Corps

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
How Can "Aviation" Counter Asymmetric Threats?	Can Airpower Counter the Asymmetric Threat? Factors Influencing The Employment Of Air-Power Against International Terrorist Threats	Robert Barr	ACSC
KC-130J Aircrew Composition	USMC KC-130J Crew Composition	Kenneth Zieleck	ACSC

US Navy

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
AU-initiated Project	An Assessment of US Navy Junior Officer Retention (1998-2000)	Kerwin LeFrere	ACSC

HQ AF

Research studies undertaken on topics for the Secretary of the Air Force and Air Staff. A number of studies sponsored by the Air Staff through the Institute for National Security Studies are listed under the "Battlelabs and Research Centers" of this report.

AF Surgeon General

Col Richard Hersack (DSN 493-4849) is the Surgeon Generals Command Chair to AU. Papers on WMD studies are also listed in the section under the Battlelabs and Research Centers.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Issues and Implications Related to the Evacuation of Casualties Potentially Contaminated by Chemical or Biological Agents	Surveillance and Detection: A Public Health Response to Bioterrorism	Barbara Bullock	ACSC
Assess Impact of Off-Duty Injuries among Military Members	Fatal and Severe Injury Motor Vehicle Crashes Involving Air Force Personnel: 1988-1999	Bridget Carr	ACSC
Air Force Fitness – How Fit Are We?	Airman First - Can Fitness Play a Part?	Denise Hollywood	ACSC
Questions on lasers, radiation, and WMD from AFSG	Homeland Biological Warfare Consequence Management: Capabilities And Needs Assessment	Dawn Rowe	ACSC
AU-initiated Project	The Practicality of Using West Nile Virus as a Biological Weapon	Sharon Spradling	ACSC

Air National Guard

Col Brad Copeland (DSN 493-7039) is the Air National Guard Advisor to AU.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Role of National Guard in WMD Response	The Role of the National Guard in Responding to WMD Attacks in the U.S.; Where do we stand?	Miguel Besosa	ACSC
Extending F-16 Availability through the Fielding of the Joint Strike Fighter	Extending USAF F-16 Force Structure	Bryan Manes	ACSC
WMD and State Emergency MGMT staff/MSN mix	Weapons of Mass Destruction Civil Support Teams (WMD-CST): A Necessary Failure	Larry Walker	ACSC

HQ AF Communications & Information (AF/SC)

See also the sections for the AF Communications Agency and the IO studies for the Inst for National Security Studies.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
AU-initiated Project	Keeping Score When the Game Keeps Changing	James Brown	AWC
AU-initiated Project	Installation Geospatial Information and Services: New Situational Awareness for Commanders	Brian Cullis	AWC

HQ AF Judge Advocate General (AF/JAG)

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
AU-initiated Project	Debarment: A Guide for Installation Commanders	Louis Cherry	ACSC
AU-initiated Project	Civilians at the Tip of the Spear: Civilian Issues Commanders Encounter During Deployments	Lisa Turner	ACSC

HQ AF Personnel (AF/DP)

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
AU-initiated Project for the Developing Aerospace Leaders project	Sharing Success – Owning Failure: Preparing to Command in the 21st Century Air Force	David Goldfein	AF Fellows
AU-initiated Project for the Developing Aerospace Leaders project	Squadron Command: The First 90 Days	Eric Hummer	ACSC

HQ AF Plans & Programs

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
A Critical Look at the DoD Planning Programming and Budget System (PPBS) and How It Affects the Air Force Resource Allocation Process	A Critical Look at the AF Planning, Programming and Budgeting System: The Unfunded Priority List (UPL) Process	Clarence Johnson	ACSC

Secretary of the Air Force

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Airman Morale and Readiness	Improving Communications between Senior AF Leadership and Troops in the Field	Manson Morris	ACSC

MAJCOMs

Research studies undertaken on topics for the Major Air Commands. Most of the MAJCOMs have official liaisons at Air University who are designated as "command chairs." These are listed under the section for each command.

AF Material Command

Col Kenneth Knapp (DSN 493-6996) is the new AFMC Command Chair to AU.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Comparative Analysis of Commercial Aviation Supply Chain Management and USAF Supply Chain Management	Organizational Structures to Best Enable Purchasing and Supply Management	Scott Chambers	AF Fellows
Directed Energy Weapons on the Battlefield	Directed Energy Weapons on the Battlefield: A New Vision for 2020	John Geis	AWC
Cost/Benefit Analysis of Total System Performance Responsibility (TSPR)	A Quest for Efficiencies-Total System Performance Responsibility	Henry Pandes	ACSC
Advantages, Policy, and Risks to Air Force-wide Deployment of Thin Client Technology.	Thin-Client Computing And Implications For The USAF	Thomas Thomas	AWC

AF Reserve Command

Col Frank Bott (DSN 493-7039) is the AF Reserve Advisor to AU.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Impact on Organizational Core Identity on the Air Force and Air Force Reserves	Air Force Core Identity and Its Impact on Retention	Nancy Kirk	ACSC
AFR Transformation Issues	An Investigation of B-2 Pilot Force Reserve Component Augmentation	Russell Mathers	ACSC
Smart Card Technology to Enhance AFR Operations	Implementing Smart Cards into the Air Force Reserve	Keith McClannan	ACSC

AF Space Command

Col Edward Strack (DSN 493-2431) is the new Space Command Chair to AU. Other paper relating to space are listed under AFSPC.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Current Air Base Defense (ABD) Doctrine: Are We Postured to Meet the Expectations of an Expeditionary Aerospace Environment?	Current Air Base Ground Defense Doctrine: Are We Postured to Meet the Expectations of an Expeditionary Aerospace Environment?	Herbert Brown	ACSC
Sovereignty and Free Passage in Outer Space: What is the Impact on Air Force Warfighters?	Sovereignty And Protective Zones In Space And The Appropriate Command And Control Of Assets	Richard Butler	ACSC
Alternative Options for Military Access to Space	Lessons from Sea Launch	Lina Cashin	ACSC
Organizing Space and Information Forces	Relationships Between Space and Information Operations: A Focus on the Effects	Scott Fox	ACSC
DoD use of Commercial SATCOM Systems	DOD Use of Commercial Wideband Satellite Communication Systems: How Much is Needed and How Do We Get It?	Robert Hutchens	ACSC
Current Air Base Defense (ABD) Doctrine: Are We Postured to Meet the Expectations of an Expeditionary Aerospace Environment?	HOMA: Israel's National Missile Defense Strategy (Abridged Version)	Guermantès Lailari	ACSC
Sovereignty and Free Passage in Outer Space: What is the Impact on Air Force Warfighters?	Operational Implications Of Sovereignty And Freedom Of Navigation In Space	Philip Wold	ACSC
AU-initiated Project	X37 Space Vehicle: Starting a New Age in Space Control	Austin Jameson	ACSC
AU-initiated Project	Do We Need Separate Space Theory? The Lessons of History	Fred Marheine	SAAS

AU-initiated Project	Ten Propositions Regarding Spacepower	Michael Smith	SAAS
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AF Special Operations Command

Col John D. Jogerst (DSN 493-5407) is the incoming Special Operations Chair to AU. Other Special Operations papers are listed under US SOCOM.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Air Force Special Operations Leadership	Phil Cochran and John Alison: Images of Apollo's Warriors	Richard Boltz	SAAS
Interoperability Between SOF and the JFACC	SOF And The JFACC – Prescription For An Ailing Relationship	Walt Schenberger	ACSC
AU-initiated Project	For Valor or Value? An Examination of Personnel Recovery Operations	Billy Thompson	SAAS

Air Combat Command

Currently, the position of Combat Air Forces Chair to AU is vacant.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
500lb JDAM Concept of Operations on B-2A	The B-2A and the 500lb JDAM: A New Concept of Mass	Steven Basham	ACSC
AU-initiated Project	Turning the Vertical Flank: Airpower as a Maneuver Force in the Theater Campaign	Robert Givens	SAAS
AU-initiated Project	The Air War Over Serbia: Denial, Punishment, or Balance of Interest?	Troy Stone	SAAS

Air Mobility Command

Col Ben Young (DSN 493-2305) is the incoming Mobility Chair for AU. Most of these projects were initiated by Col Doug Miller.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Next Generation Tanker Fleet	Next Generation Tanker	Elisa D'Antonio	ACSC

Strategic Brigade Airdrop: What Needs to be Done by the Air Force and Army to Make It a Credible Threat/Deterrent?	18 Hours on Green Ramp: Air Mobility Command's Support to the 82nd Airborne Division Ready Brigade	Scott Haines	ACSC
Improving Organizational Effectiveness	Squadron Command: The First 90 Days	Eric Hummer	ACSC
Strategic Brigade Airdrop: What Needs to be Done by the Air Force and Army to Make It a Credible Threat/Deterrent?	From paper to Practice: Making Strategic Brigade Airdrop a Credible Force Employment Option	David Kasberg	ACSC
Strategic Brigade Airdrop: What Needs to be Done by the Air Force and Army to Make It a Credible Threat/Deterrent?	Testing the C-17 for the Strategic Brigade Airdrop Role: When Will It End?	Peter Livingston	AWC
Determining Characteristics of the Next Generation	Looking Ahead At The Future Of Airlift: A Capabilities-Based Approach To Designing The Next Generation Strategic Airlifter	Chad Manske	ACSC
Disruptive Technologies	Paranoia, Disruption, and Dominance: Corporate Lessons for the DOD	Robert Wright	AF Fellows
AU-initiated Project	Civilian Contract Air Refueling: Innovative or Insane?	Mark Camerer	ACSC
AU-initiated Project	Manning the C-17: Requirements and Challenges	Frank Van Horn	ACSC

US Air Forces in Europe

The position of Combat Air Forces Chair to AU is currently vacant.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Combat Assessment: Driving the Targeting Process through Nodal and Target System Analysis	Assess For Success: The Role Of Doctrine In Effective Combat Assessment	Tom Bailey	ACSC

Enterprise Network Management
and Security for the 21st CenturyNo Silver Bullets: The Long Road to
Optimizing management of the
Global Information Grid

Barbara Yancey ACSC

FOAs & DRUs

Research studies undertaken on topics for Field Operating Agencies and Direct Reporting Units to the Air Staff.

AF Communications Agency

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Coalition and Allied Information Sharing	The "Capabilities Gap" in Desert Storm: A Coalition Air Campaign Case Study	Frank Rossi	SAAS

AF Logistics Management Agency

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
How Contracting Out Base Operations Support Impacts Combat Readiness	Base Operations Support (BOS) Competitive Sourcing and Privatization: How Are We Doing?	Kurt Kittl	ACSC
Explore How the Air Force Can Expand the Use of Award Fee and Award Term Incentives throughout all Major Commands, Field Operating Agencies, and Direct Reporting Units	Analysis of Air Force Award Fee and Award Team Contract Implementation	Tom Snyder	ACSC

AF Studies and Analyses Agency

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Air Power Legitimacy Enhancement through Increased Mobility Capability	Aerospace Power's Contribution To Humanitarian Assistance Missions: Redefining Effects-Based Operations	Michael Holl	ACSC
Air Power Legitimacy Enhancement through Increased Mobility Capability	Air Mobility: Simultaneous Enhancement of Air Power Legitimacy & Security Dilemma Amelioration	Timothy Reed	ACSC

Air Force Doctrine Center

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
AU-initiated Project	Turning the Vertical Flank: Airpower as a Maneuver Force in the Theater Campaign	Robert Givens	SAAS
AU-initiated Project	The Limits of Decentralized Execution: The Effects of Technology on a Central Airpower Tenet	Mustafa Koprucu	SAAS
AU-initiated Project	The United States Strategic Bombing Survey and Air Force Doctrine	John McMullen	SAAS
AU-initiated Project	The "Capabilities Gap" in Desert Storm: A Coalition Air Campaign Case Study	Frank Rossi	SAAS
AU-initiated Project	The Air War over Serbia: Denial, Punishment, or Balance of Interest?	Troy Stone	SAAS

Battlelabs & Research Centers

Research studies undertaken on topics proposed by AF Battlelabs and by various research centers, such as the Institute for National Security Studies (INSS).

AF Research Laboratory

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Impact of Parameter Accuracy on Aircraft Structural Integrity Estimates	Impact of Parameter Accuracy on Aircraft Structural Integrity Estimates	Scott Fawaz	ACSC
Air Force Missions for Micro Air Vehicles	Death by a Thousand Cuts: Micro-Air Vehicles (MAV) in the Service of Air Force Missions	Arthur Huber	AWC
Airborne Laser (ABL): Catalyst to Transforming Aerospace Power	Airborne Laser: Catalyst to Transforming Aerospace Power	Helmut Reda	AF Fellows

AU Center for Strategy And Technology

The AU Center for Strategy And Technology (CSAT) is located at Maxwell and directed by Dr Grant Hammond (DSN 493-6996).

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Innovation and Transformation in the 21st Century Air Force	Through a Glass, Darkly: Innovation and Transformation in the Twenty-First Century Air Force	Chris Daehnick	AF Fellows
AU-initiated Project	Between Iraq and a Hard Place: Fighting Guerrilla Warfare in the Air	Gary Webb	AWC

Institute for National Security Studies

INSS takes project ideas and funding from the Air Staff and stimulates research studies to satisfy these needs. More information on this center is available at www.usafa.af.mil/inss.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Information Operations (IO) 5.28	The Spectrum Of Cyber Conflict From Hacking To Information Warfare: What Is Law Enforcement's Role?	Bonnie Adkins	ACSC
Global Security 3.13	Decision Making Preferences Of Eastern Europeans And Their Implications For National Security	Anthony Aretz	AWC
Information Operations (IO) 5.16	Information War Crimes: Mitnick meets Milosevic	Darwyn Banks	ACSC
Information Operations (IO) 5.37	Meeting The Joint Vision 2020 Challenge: Organizing For Information Operations	John Bansemer	ACSC
Information Operations (IO) 5.38	Beyond The Precipice—Amid Waves Of Change: Strategic Scouts Explore The Future	Al Bedgood	AWC
Information Operations (IO) 5.5	Air Force Information Operations (IO) Doctrine: Consistent with Joint IO Doctrine?	Robert Blackington	ACSC
Counterproliferation (CP) 2.3	Improving Air Force Chemical And Biological Defense Capabilities Throughout The Spectrum Of Operations	Rrichard Brubaker	AWC
Global Security 3.13	Expanding Security Eastward: NATO and US Military Engagement in the South Caucasus and Central Asia	James DeTemple	AF Fellows
Air Force Planning 6.17	Slowing the Genie's Spread: Reversing the Proliferation of Weapons of Mass Destruction	William Eliason	AF Fellows

Global Security 3.7	Interoperability: Is it Achievable?	Anthony Faughn	AF Fellows
Air Force Planning 6.14	Fighters of the Total Force in the 21st Century: Should the Force Structure Change?	Robert Harvey	AF Fellows
Information Operations (IO) 5.31	Active Computer Network Defense: An Assessment	Eric Holdaway	ACSC
Latin America - Global Security 3.23	The Military War on Drugs: Too Many Assets, Too Few Results	Stephen Howard	AF Fellows
Information Operations (IO) 5.10	Battle Damage Assessment for Cyberwar	Donald Hudson	AF Fellows
Middle East - Global Security 3.16	Is the United Nation's Current Policy in Iraq Effective? Evaluation of Economic Sanctions and the Oil-for-Food Program	Gordon Jacobs	AF Fellows
Counterproliferation (CP) 2.26	Lessons Learned from History: Implications for Homeland Defense	Martha Jordan	AF Fellows
Global Security 3.5	The Role Of The United Nations In The 21st Century: A Case For An International Police Force	Jeffrey Kersten	ACSC
Air Force Planning 6.7	New Conventional Weapons: Reducing Reliance on a Nuclear Response Toward Aggressors	Gary Lane	AF Fellows
Middle East - Global Security 3.17	Wielding the Sword While Forging the Shield: Nuclear, Biological, Chemical and Missile Counterforce Operations	Timothy Lindemann	AF Fellows
Information Operations (IO) 5.38	Beyond The Precipice—Amid Waves Of Change: Strategic Scouts Explore The Future	Jerry Miller	AWC
Information Operations (IO) 5.38	Beyond The Precipice—Amid Waves Of Change: Strategic Scouts Explore The Future	Scott Moore	AWC

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Global Security 3.2	The Politics of Vulnerability: China, Russia and US Missile Defense	Allan Netzer	AF Fellows
Space Policy 7.23	The Rise of Surveillance	Jim Norman	AF Fellows
Counterproliferation (CP) 2.8	Viability of a Smallpox Attack on the US Homeland	Kenneth Russell	ACSC
Counterproliferation (CP) 2.22	What If It Happened Here?: U.S. Response To A Biological Warfare Campaign Within The United States	Fabrizio Saraceni	AWC
Global Security 3.4	Globalized Security: Reshaping America's Defense Trade Policy	Shannon Sullivan	AF Fellows
Global Security 3.14	European Security and Defense Identity Explained: Why the US Should Support It	Patrick Sullivan	ACSC
Global Security 3.14	The European Union's Emerging Military Capability	Johan Tornqvist	ACSC
Information Operations (IO) 5.12	Ignored Weapons of Mass Destruction? Analysis of RFW Against the US Banking and Financial Infrastructure	Darryl Williams	ACSC

Unmanned Aerial Vehicle Battlelab

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Integration of Manned and Unmanned Flight Operations	UAVs: An Airborne Tactical Air Control Party	Patrick McKenzie	ACSC

USAF Counterproliferation Center

The AF Counterproliferation Center is located at Maxwell AFB and directed by Dr Barry Schneider (DSN 493-2103).

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
AU-initiated Project	Not with Impunity: Assessing U.S. Policy for Retaliating to Chemical or Biological Attack	Harry Conley	AWC
AU-initiated Project	Guiding United States Government Response to an Overseas Chemical, Biological, Radiological, or Nuclear Disaster	Roman Hrycaj	AWC
AU-initiated Project	Managing Proliferation in South Asia: A Case for Assistance to Unsafe Nuclear Arsenals	Robert Rehbein	AWC

USAF Force Protection Battlelab

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Pre-Deployment Force Protection Spin Up for AEF	Reducing the Force Protection Experience Gap Created by the AEF	Paul Harris	ACSC
Web-based Medical Readiness Tools	Operational Medical Tools	Douglas Hodge	ACSC

Other Papers of Note

Research studies of general interest.

Air Command and Staff College

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Squadron Officer College Continuum of Education	The Study of Curriculum Development: Wing Squadron Officers Course	Kerk Brown	ACSC
Cultural, ethnic, religious, and historical aspects of morality, ethics and/or justice in war	On Some of the Moral Limits Regarding Attack	Michael Carlino	ACSC
Statistical Analysis of Multiple Choice Testing	Statistical Analysis of Multiple Choice Testing	Mark Colbert	ACSC
History	Oil Logistics in the Pacific War: In and After Pearl Harbor	Patrick Donovan	ACSC
Planning for Air Force Vision 2020's Most Critical Asset – People.	Blurred Values: Correcting the Air Force's 2020 Vision	Michael Madison	ACSC
The Civil-Military Authority Rift - A Danger to the Republic or Elitist Myth?	The Civilian Putsch of 2018: Debunking the Myth of a Civil-Military Leadership Rift	Douglas Mastriano	ACSC
The Relationship of Critical Thinking Disposition to Knowledge Interest, Experience, and Academic Performance at Air Command and Staff College	The Relationship Between Student Critical Thinking Disposition at the United States Air Command and Staff College and Academic Performance	Mary-Claire McCarthy	ACSC
Operation ALLIED FORCE: Quality of Life Issues	The Benefits Aviation Psychologists Offer Operational Commanders: An Analysis and Discussion	London Richard	ACSC

Cultural, ethnic, religious, and historical aspects of morality, ethics and/or justice in war	The Teaching of Morality in Warfighting in Today's Officer Corps	Gerald Swift	ACSC
Global Dynamic Operations	Global Strategic Task Force: A Strategic Renaissance	Thomas Szvetecz	ACSC
History	Operation Fortitude: The Closed Loop D-Day Deception Plan	Ernest Tavares	ACSC
Reducing AWACS PERSTEMPO	Reducing AWACS Perstempo: A Conceptual Approach	Bill Tully	ACSC
History	The 37th Bombardment Squadron's Service in World War II	James van Loben Sels	ACSC
Innovative Problem-Solving Skills for Military Leaders	Innovative Problem Solving In USAF Officer PME Curriculum	Debra Willey	ACSC
Poland, Armed Forces, Politics and Reform, 1989-Present	On The Wings of the White Eagle: Poland's Air Force Reform and Modernization, 1989-Present	Pamela Wolosz	ACSC

Air Force Fellows

Air Force National Defense University Fellows.

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
Maintaining a Robust Competitive Defense Industry that can Provide Affordable, High Quality, and Innovative Defense Products	Defense Industrial base at a Crossroads	Gail Allen	AF Fellows
Terrorism Threats Against the U.S. Homeland: What Part Should the Military Play in the Federal Response?	Terrorism and the Military's Role in Domestic Crisis Management: Background and Issues for Congress	Jeffrey Brake	AF Fellows
Analysis of the Proper Use of US Military Force in New World Era	Views on Military Intervention: The Role of Moral Hazard	Lansen Conley	AF Fellows
The Future of Protecting USAF Resources	Risk Management Security: Improving USAF Protection Level Asset Security System	Clifford Day	AF Fellows

Should the United States Military Develop a Rapidly Deployable Consequence Management Force?	Consequence Management: A Disconnect Between National Security Policy and Force Structure?	Joseph Ford	AF Fellows
System Accidents and Commander Uncertainty: Doctrinal Implications for Achieving Decision Superiority	Precision Engagement at the Strategic Level of War: Guiding Promise or Wishful Thinking?	Tim Sakulich	AF Fellows
Effects of the Spread of Advanced Military Technology in the Persian Gulf	Effects of the Spread of Advanced Military Technology in the Persian Gulf	Russell Travis	AF Fellows
Terrorism Threats Against the U.S. Homeland: What Part Should the Military Play in the Federal Response?	Intelligence Oversight Revisited: Does CONUS Base Security Require a Change?	Victor Valdez	ACSC
Innovative Problem-Solving skills for Military Leaders	Developing Aerospace Leaders for the Twenty-First Century	Nancy Weaver	AF Fellows

Air War College

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
AWC Research Papers 2001	Cyber Warfare Strategy	Randy Blaisdell	AWC
AWC Research Papers 2001	Market Garden: Was Intelligence Responsible for the Failure?	Phillip Bradley	AWC
AWC Research Papers 2001	Leadership: A Timeless Lesson	Mark Canard	AWC
AWC Research Papers 2001	MAGTF Air Assets and the JFACC	Ben Hancock	AWC
AWC Research Papers 2001	The Art of Aerial Warfare	David Moore	AWC
AWC Research Papers 2001	Transforming World War II into the Good War: Official Government Propaganda in Feature-Length Films	Robert Rehbein	AWC

AWC Research Papers 2001

Changing Leadership in the 21st
Century-Dispelling the Myth

Michael Saville

AWC

School for Advanced Aerospace Studies

<u>Requested Topic</u>	<u>Title of Paper</u>	<u>Student</u>	<u>School</u>
SAAS Research Topics	Prejudicial Counsel: A Multidimensional Study of Tactical Airpower between the Korean and Vietnam Wars	Ronald Banks	SAAS
SAAS Research Topics	An Enduring Framework for Assessing the Contributions of Force Structure to a Coercive Strategy	Eric Beene	SAAS
SAAS Research Topics	General Merrill A. McPeak: Leadership and Organizational Change	Thomas Bussiere	SAAS
SAAS Research Topics	Fall of the Fighter Generals: The Future of USAF Leadership	William Danskine	SAAS
SAAS Research Topics	The Politics of Coercion: Toward a Theory of Coercive Airpower for Post- Cold War Conflict	Ellwood Hinman	SAAS
SAAS Research Topics	The Art of Strategic Balance: Reconciling Global, Domestic, and Theater Imperatives	Scott Long	SAAS
SAAS Research Topics	Marine Close Air Support in Korea 1950-1953	Lynn Stover	SAAS